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UNIVERSITY OF VIRGINIA
THE COLGATE DARDEN GRADUATE SCHOOL OF BUSINESS ADMINISTRATION
Tayloe Murphy Institute

Estimates of the Population of Virginia Counties and Cities: July 1, 1981 (Provisional)

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The provisional 1981 population estimates contained in this publication are the first of the series to be issued annually by Tayloe Murphy Institute during the present decade. This series will correspond to the one published during the 1970s. However, the provisional 1981 estimates differ from both these series in two ways. First, the annual estimates of population for counties and independent cities are usually produced in cooperation with the Bureau of the Census under the auspices of the Federal-State Cooperative Program for Local Population Estimates. However, the Census Bureau does not plan to publish provisional 1981 estimates for substate areas. Consequently the provisional 1981 estimates were independently produced by Tayloe Murphy Institute, though the method used, as explained below, is one of the three developed and used in the program during the past decade. It is anticipated that cooperative estimates will once more be issued beginning with final 1981 and provisional 1982 estimates, to be available by Summer, 1983. The user should note, however, that although provisional estimates for substate areas were not produced by the Bureau of the Census, the Bureau has published an estimate for the State as a whole.[1] Therefore the usual procedure was followed in adjusting the county and city estimates to this total.

The second major difference from previous and future estimates is in methodology. During most of the previous decade estimates were produced by averaging the results of three different methods, ratio-correlation, component II, and administrative records. These methods are currently undergoing testing and revision both by the Bureau of the Census and Tayloe Murphy Institute, and the methods to be used during the remainder of the decade will be jointly decided upon. Since this testing is not yet complete, provisional 1981 estimates were developed using the ratio-correlation method, the single method indicated by preliminary tests to be the most accurate. This is a method based on the use of regression analysis to develop a predictive equation. For these estimates a new equation was developed using 1980 Census data as the base. Indicator variables used in the equation were the same as for previous years: a three-year average of births, school enrollment in grades 1-8, and the number of state tax returns filed. As has always been the case, 1981 births by locality were not available in final form in time for use in the provisional equation; consequently 1980 births are used to estimate 1981 births. The coefficients in this equation are .1130 for births, .3294 for state tax returns filed, and .4058 for school enrollment. The constant is .1333. Further details about the methodology and the current status of the testing program are available from Tayloe Murphy Institute.

Table 1.
Estimated Population of Metropolitan Areas of Virginia, July 1, 1981 (Provisional)[2]

	Provisional July 1, 1981	April 1, 1980	Percent Change 1980-1981	
			Total	Net Migration
Charlottesville	114,600	113,568	.9	.2
Danville	111,900	111,789	.1	-.2
Johnson City-Kingsport-Bristol, TN-VA (Va. Part)	91,100	90,597	.5	.3
Lynchburg	154,400	153,260	.7	.2
Newport News-Hampton	370,800	364,449	1.7	.6
Norfolk-Virginia Beach-Portsmouth VA-NC (Va. Part)	809,100	795,862	1.7	.4
Petersburg-Colonial Heights-Hopewell	129,700	129,296	.3	-.6
Richmond	645,400	632,015	2.1	1.4
Roanoke	227,200	224,341	1.3	.9
Washington, DC-MD-VA (Va. Part)	1,140,500	1,105,714	3.2	1.9
Metropolitan	3,794,800	3,720,891	2.0	1.0
Nonmetropolitan	1,634,900	1,625,927	.6	.0

1 U.S. Bureau of the Census, Current Population Reports, Series P-25 no. 911, April 1982.
2 Because of differences introduced by rounding, the totals of constituent areas may not sum to the totals in this table.

Table 2.
Estimated Population of Virginia Counties and Cities, July 1, 1981 (Provisional)

Line		Provisional July 1, 1981	April 1, 1980	Percent Change 1980-1981	
				Total	Net Migration
	STATE OF VIRGINIA	5,429,700	5,346,818	1.5	0.7
	Counties				
1	Accomack	30,800	31,268	-1.3	-1.3
2	Albemarle	56,800	55,783	1.8	.9
3	Alleghany	14,200	14,333	- .6	-1.4
4	Amelia	8,100	8,405	-3.4	-3.8
5	Amherst	29,100	29,122	0	- .6
6	Appomattox	11,900	11,971	- .3	- .7
7	Arlington	153,400	152,599	.5	- .1
8	Augusta	54,600	53,732	1.7	1.1
9	Bath	5,300	5,860	-8.8	-8.8
10	Bedford	36,000	34,927	3.0	2.3
11	Bland	6,400	6,349	1.6	1.0
12	Botetourt	24,100	23,270	3.5	3.1
13	Brunswick	15,800	15,632	1.3	.9
14	Buchanan	38,200	37,989	.5	- .7
15	Buckingham	11,800	11,751	.1	- .4
16	Campbell	46,200	45,424	1.6	.7
17	Caroline	17,900	17,904	.0	-.9
18	Carroll	28,200	27,270	3.3	3.1
19	Charles City	6,700	6,692	- .3	-1.7
20	Charlotte	12,000	12,266	-2.0	-2.3
21	Chesterfield	149,900	141,372	6.1	4.7
22	Clarke	9,900	9,965	-1.1	-1.4
23	Craig	3,700	3,948	-5.1	-5.6
24	Culpeper	22,500	22,620	- .6	-1.4
25	Cumberland	7,900	7,881	.7	.4
26	Dickenson	20,100	19,806	1.6	.9
27	Dinwiddie	22,500	22,602	- .6	-1.0
28	Essex	8,700	8,864	-2.2	-2.3
29	Fairfax[2]	618,700	595,808	3.8	2.6
30	Fauquier	36,600	35,889	1.9	1.1
31	Floyd	12,000	11,563	3.5	3.1
32	Fluvanna	10,300	10,244	.2	- .7
33	Franklin	35,800	35,740	.2	- .3
34	Frederick	34,300	34,150	.4	- .8
35	Giles	17,800	17,810	- .1	- .2
36	Gloucester	21,100	20,107	4.8	4.1
37	Goochland	11,800	11,761	.7	.1
38	Grayson	15,700	16,579	-5.6	-5.7
39	Greene	7,600	7,625	- .1	-1.5
40	Greensville	11,100	10,903	1.6	.9
41	Halifax	30,500	30,599	- .4	- .8
42	Hanover	51,100	50,398	1.4	.8
43	Henrico	185,800	180,735	2.8	2.2
44	Henry	56,800	57,654	-1.4	-2.1
45	Highland	2,900	2,937	-2.4	-2.9
46	Isle of Wight	22,200	21,603	2.6	1.9
47	James City	23,600	22,763	3.6	3.0
48	King & Queen	5,900	5,968	- .5	- .9
49	King George	10,800	10,543	2.0	1.0
50	King William	9,600	9,334	2.4	1.8
51	Lancaster	10,100	10,129	- .8	- .1
52	Lee	26,400	25,956	1.8	1.3
53	Loudoun	58,100	57,427	1.3	.0
54	Louisa	17,800	17,825	- .0	- .7
55	Lunenburg	12,200	12,124	.8	.7

Table 2. (continued)

Line		Provisional July 1, 1981	April 1, 1980	Percent Change 1980-1981	
				Total	Net Migration
56	Madison	10,100	10,232	-1.6	-2.0
57	Mathews	8,100	7,995	1.5	1.8
58	Mecklenburg	28,700	29,444	-2.6	-3.0
59	Middlesex	7,900	7,719	2.0	2.6
60	Montgomery[3]	64,700	63,244	2.2	1.5
61	Nelson	12,300	12,204	.5	- .0
62	New Kent	8,900	8,781	1.5	.6
63	Northampton	14,700	14,625	.2	- .4
64	Northumberland	10,000	9,828	1.5	2.0
65	Nottoway	14,600	14,666	- .5	- .6
66	Orange	18,200	18,063	.8	.3
67	Page	19,500	19,401	.3	- .1
68	Patrick	17,500	17,647	-1.1	-1.3
69	Pittsylvania	66,100	66,147	- .0	- .5
70	Powhatan	13,200	13,062	1.0	.3
71	Prince Edward	16,700	16,456	1.6	1.1
72	Prince George	26,700	25,733	3.7	2.1
73	Prince William	152,400	144,703	5.3	3.2
74	Pulaski	35,100	35,229	- .3	- .7
75	Rappahannock	5,900	6,093	-2.8	-3.4
76	Richmond	6,800	6,952	-2.6	-2.8
77	Roanoke	74,600	72,945	2.2	1.7
78	Rockbridge	18,200	17,911	1.8	1.4
79	Rockingham	58,300	57,038	2.2	1.2
80	Russell	32,000	31,761	.8	.2
81	Scott	25,200	25,068	.5	.3
82	Shenandoah	27,500	27,559	- .2	- .4
83	Smyth	33,400	33,366	.1	- .3
84	Southampton	18,200	18,731	-2.6	-3.2
85	Spotsylvania	35,800	34,435	4.1	2.8
86	Stafford	42,300	40,470	4.5	3.4
87	Surry	6,000	6,046	- .8	-1.4
88	Sussex	10,600	10,874	-2.3	-2.7
89	Tazewell	51,200	50,511	1.4	.8
90	Warren	21,500	21,200	1.2	.6
91	Washington	47,700	46,487	2.5	2.2
92	Westmoreland	14,100	14,041	.3	- .0
93	Wise	44,100	43,863	.6	- .5
94	Wythe	25,700	25,522	.6	.4
95	York	36,800	35,463	3.9	3.5
	Total Counties	3,390,200	3,325,327	2.0	1.1
	Cities				
96	Alexandria	106,000	103,217	2.7	1.9
97	Bedford	6,300	5,991	5.7	6.6
98	Bristol	18,200	19,042	-4.5	-4.3
99	Buena Vista	6,600	6,717	-2.5	-2.7
100	Charlottesville	40,000	39,916	.2	- .2
101	Chesapeake	117,300	114,486	2.5	1.2
102	Clifton Forge	4,900	5,046	-3.7	-2.9
103	Colonial Heights	16,600	16,509	.5	.0
104	Covington	8,700	9,063	-3.6	-3.6
105	Danville	45,800	45,642	.3	.1
106	Emporia	5,100	4,840	4.9	4.8
107	Fairfax[2]	19,500	20,483	-4.8	-5.9
108	Falls Church	9,500	9,515	- .4	- .7
109	Franklin	7,400	7,308	1.6	.6
110	Fredericksburg	15,300	15,322	.1	- .1

Table 2. (continued)

Line		Provisional July 1, 1981	April 1, 1980	Percent Change 1980-1981	
				Total	Net Migration
111	Galax	6,800	6,524	3.5	3.4
112	Hampton	123,700	122,617	.9	- .4
113	Harrisonburg	20,500	19,671	4.3	3.9
114	Hopewell	23,800	23,397	1.9	.6
115	Lexington	6,700	7,292	-8.8	-8.5
116	Lynchburg	67,200	66,743	.7	.3
117	Manassas	16,700	15,438	8.0	5.8
118	Manassas Park	6,400	6,524	-2.5	-4.2
119	Martinsville	17,900	18,149	-1.3	-1.0
120	Newport News	146,300	144,903	1.0	- .4
121	Norfolk	267,400	266,979	.1	-1.1
122	Norton	4,600	4,757	-4.3	-4.6
123	Petersburg	40,100	41,055	-2.3	-3.0
124	Poquoson	9,100	8,726	4.8	4.0
125	Portsmouth	104,100	104,577	- .4	-1.4
126	Radford[3]	13,700	13,497	2.1	2.1
127	Richmond	218,000	219,214	- .6	- .9
128	Roanoke	100,800	100,220	.6	.3
128	Salem	24,000	23,958	.3	- .0
130	South Boston	6,900	7,093	-2.4	-2.3
131	Staunton	22,000	21,857	.8	.7
132	Suffolk	47,400	47,621	- .5	-1.0
133	Virginia Beach	272,900	262,199	4.1	2.5
134	Waynesboro	15,100	15,329	-1.4	-1.9
135	Williamsburg	10,200	9,870	3.2	2.7
136	Winchester	20,000	20,217	- .9	-1.1
	Total Cities	2,039,500	2,021,491	.9	.0

1 Because of differences introduced by rounding, the totals of constituent areas may not sum to this total.
2 Effective December 31, 1980, a boundary change tranferred approximately 1,093 people from Fairfax County to Fairfax City. Since the Bureau of the Census has not yet adjusted the 1980 count to reflect this change, 1980 population is approximate.
3 Effective December 31, 1980, Radford City annexed approximately 272 people from Montgomery County. Since the Bureau of the Census has not yet adjusted the 1980 count to reflect this change, 1980 population is approximate.

Table 3.
Estimated Population of the Planning Districts of Virginia, July 1, 1981 (Provisional)[1]

	Provisional July 1, 1981	April 1, 1980	Percent Change 1980-1981	
			Total	Net Migration
STATE OF VIRGINIA	5,429,700	5,346,818	1.5	0.7
Planning District 1	100,300	99,644	.6	- .0
Planning District 2	141,500	140,067	1.1	.3
Planning District 3	182,000	181,139	.5	.2
Planning District 4	143,300	141,343	1.4	.9
Planning District 5	255,000	252,783	.9	.5
Planning District 6	210,200	208,344	.9	.4
Planning District 7	132,600	132,492	.1	- .5
Planning District 8	1,140,500	1,105,714	3.2	1.9
Planning District 9	93,300	92,897	.4	- .3
Planning District 10	144,700	143,597	.8	.1
Planning District 11	196,700	194,178	1.3	.8
Planning District 12	239,000	240,979	- .4	- .8
Planning District 13	81,900	82,768	-1.0	-1.4
Planning District 14	83,400	83,549	- .2	- .5
Planning District 15	645,400	632,015	2.1	1.4
Planning District 16	122,200	118,674	2.9	1.9
Planning District 17	40,900	40,950	- .2	- .0
Planning District 18	61,200	59,987	2.1	1.8
Planning District 19	162,500	161,959	.3	- .5
Planning District 20	856,900	843,504	1.6	.4
Planning District 21	349,700	344,342	1.6	.4
Planning District 22	45,500	45,893	- .9	-1.0

1 Because of differences introduced by rounding, the totals of constituent areas may not sum to the totals in this table.